



**Agriclime**

# Smart weather, smarter farmin



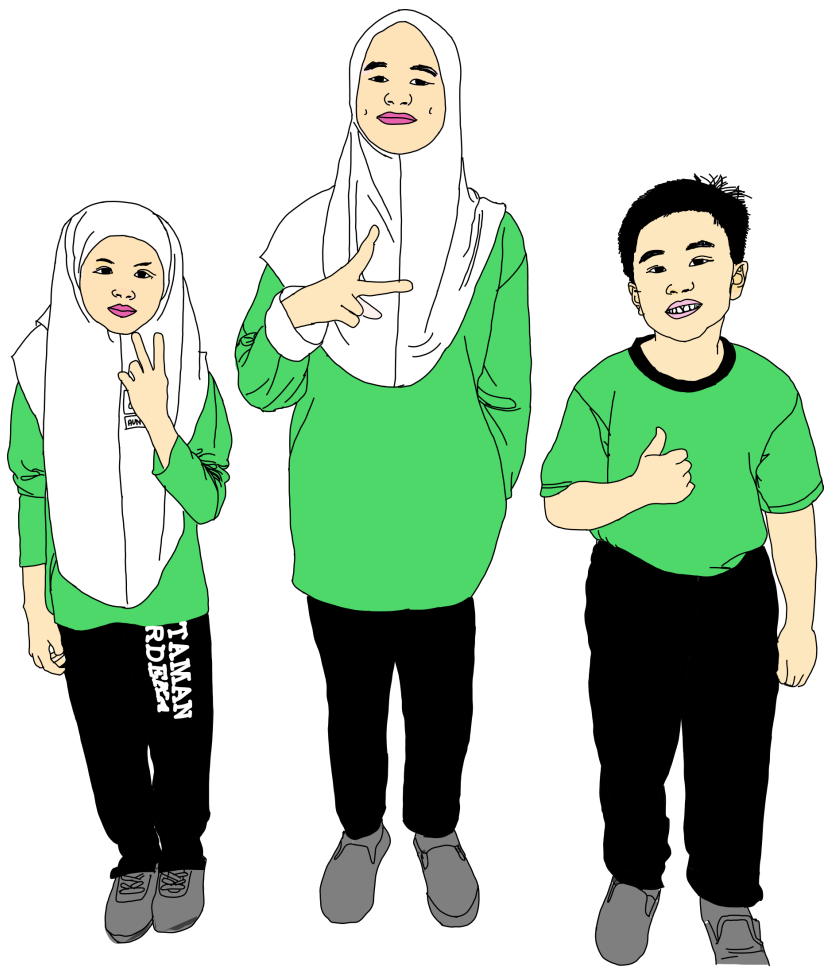
**Sekolah kebangsaan taman merdeka  
Batu berendam, 75350 Melaka.**

# AgriClime

Smart weather, smarter farming







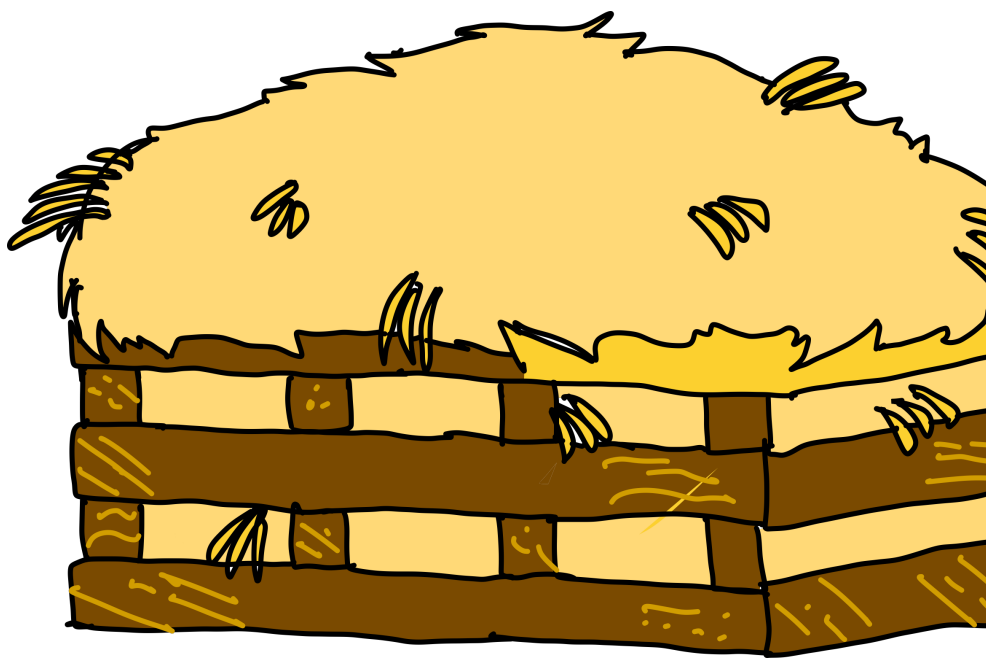


Merdeka tech explorers 2024

**Explore**

Bahagian ini membincangkan tentang pemilihan *Sustainable Development Goals*, latar belakang projek, cara meningkatkan produktiviti petani dan teknologi pertanian pada masa kini.







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# 2 ZERO HUNGER



# Pemilih

**2.3** Pada 2030, menggandakan produktiviti pertanian terutamanya wanita, orang asli, petani keluarga, petani selamat dan saksama kepada tanah, sumber produk

pasaran, dan peluang untuk penambahbaikan nilai c

TARGET 2.3



DOUBLE THE  
PRODUCTIVITY AND  
INCOMES OF  
SMALL-SCALE FOOD  
PRODUCERS

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# Menc

**Masalah petani**



**Challenges in Agriculture and...**  
[agamerica.com](http://agamerica.com)

**Inflasi dan masalah keuangan**

**Masalah dan isu yang dihadapi oleh petani masa kini**



**11 Major Problems Faced By In...**  
[kisanvedika.bighaat.com](http://kisanvedika.bighaat.com)

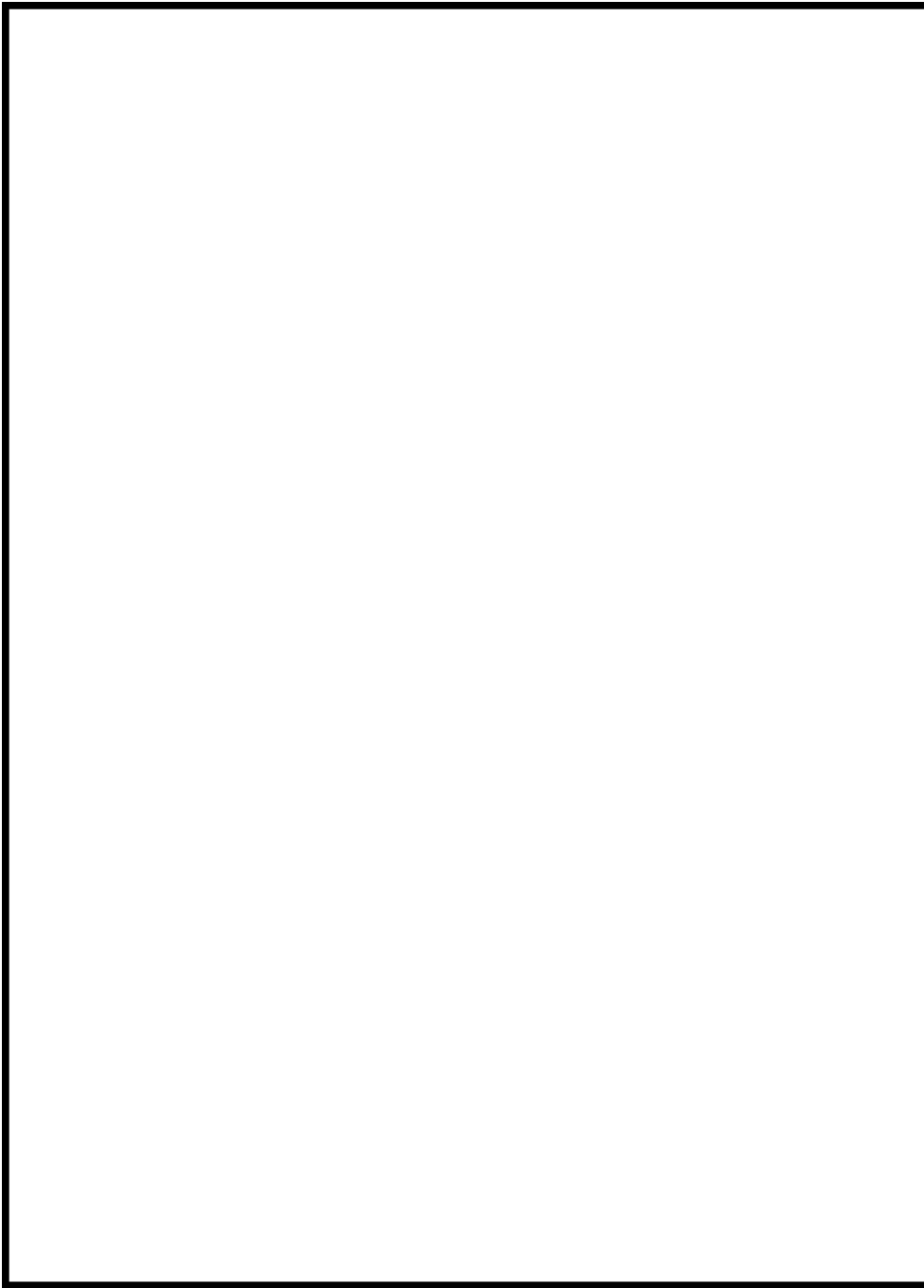
**Akses kepada teknologi dan pertanian moden**

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# LATAR BELAKANG

Perubahan iklim dan kesannya kepada p





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# Menc

**Cara membantu petani**

Akses kepada maklumat  
pasaran

Cara  
produkt

Penggunaan benih berkualiti

Bekerjasama dan berkolaborasi  
dengan pihak luar



# Menc

**Teknologi pertanian**

**Latihan kemahiran kepada petani**



**Akses kepada teknologi pertanian**

**pembiayaan kewangan**

# Plan



Bahagian ini membincangkan pelbagai prototaip dalam pembinaan sistem pengawalan ladang automatik dan sistem maklumat cuaca sebelum pemilihan prototaip yang terbaik iaitu AgriClime.

the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 12.5 million, and the number of people aged 75 and over has increased from 4.5 million to 6.5 million (Office of National Statistics 2000).

There is a growing awareness of the need to develop services to meet the needs of older people, and the need to ensure that the services that are developed are based on evidence of what works. The Department of Health (2000) has published a strategy for the care of older people, which sets out the government's commitment to improve the care of older people, and to ensure that the services that are developed are based on evidence of what works.

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- To ensure that older people are treated as individuals, and that their needs are met.
- To ensure that older people are given the opportunity to participate in decisions about their care.
- To ensure that older people are given the opportunity to live in their own homes, and to continue to play an active role in their communities.

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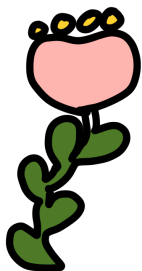
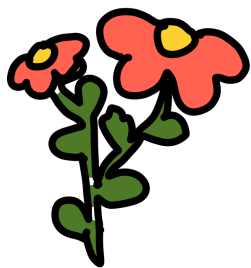
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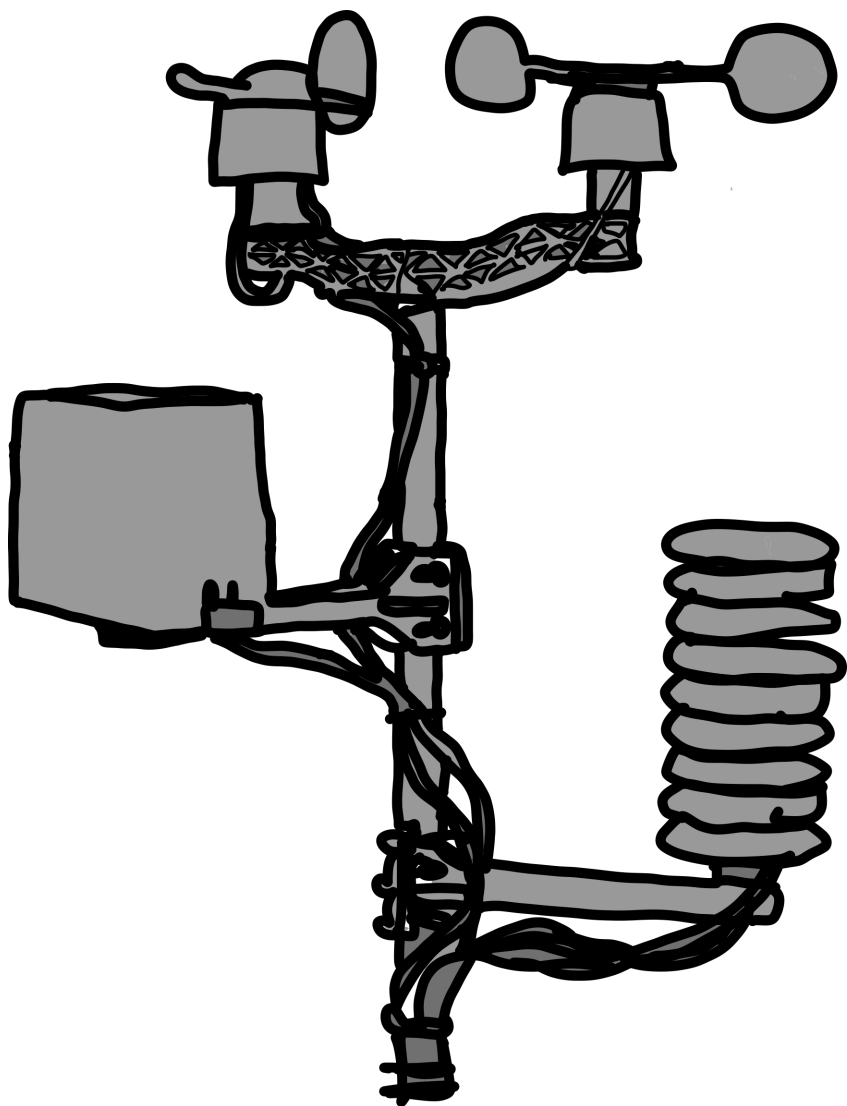
The first of these is the fact that the world is not a uniform whole, but a collection of many different parts, each with its own characteristics and interests. This is the case with the human world, where different nations and peoples have different customs, languages, and ways of life. It is also the case with the natural world, where different regions have different climates, plants, and animals. This diversity is a source of richness and interest, but it also presents a challenge to those who seek to understand the world as a whole. How can we make sense of all these different parts and how they relate to each other?

The second of these is the fact that the world is not a static whole, but a dynamic one, constantly changing and evolving. This is the case with the human world, where new ideas, technologies, and social structures are constantly being developed and adopted. It is also the case with the natural world, where new species are constantly being discovered and old ones are constantly disappearing. This dynamism is a source of excitement and hope, but it also presents a challenge to those who seek to understand the world as a whole. How can we keep up with all these changes and how can we predict the future?

The third of these is the fact that the world is not a simple whole, but a complex one, with many different levels of organization and interaction. This is the case with the human world, where individuals interact with each other, with groups, and with society as a whole. It is also the case with the natural world, where atoms interact with molecules, which interact with cells, which interact with organisms, which interact with ecosystems, which interact with the planet as a whole. This complexity is a source of wonder and awe, but it also presents a challenge to those who seek to understand the world as a whole. How can we understand all these different levels of organization and how they relate to each other?

# Proto

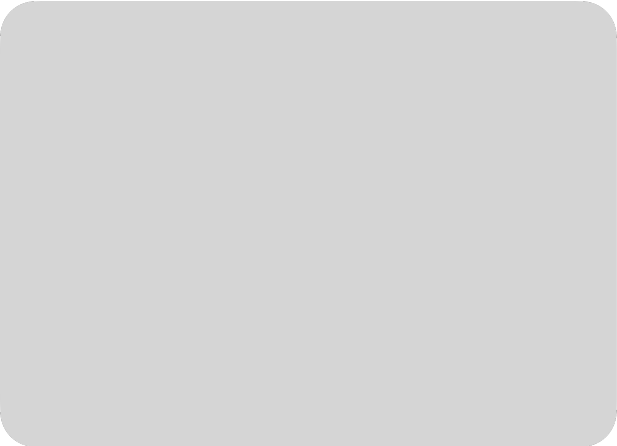
**Crops control centre (C3)**





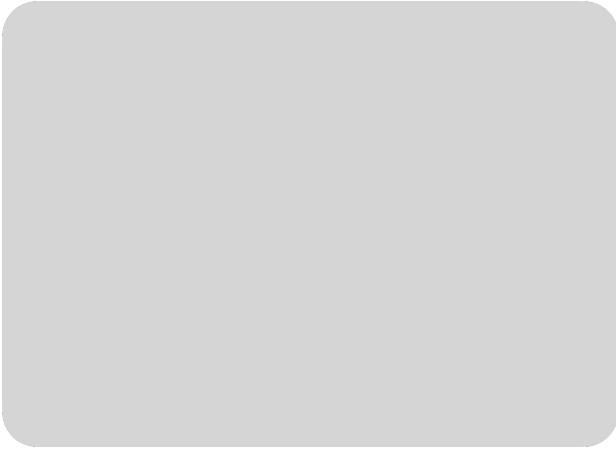


**Sistem amaran mengesan kehadiran Haiwan perosak dan memberikan amaran awal kepada petani.**



**Alat pengukur keamatan cahaya membantu memantau cahaya yang diterima oleh tanaman untuk menjalankan**

**fotosintesis.**

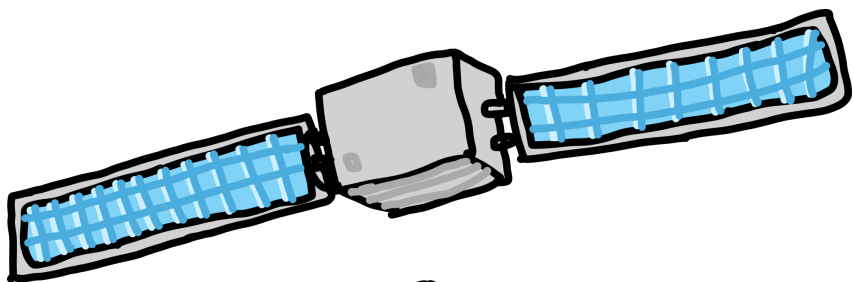


**Alat pengukur pH,  
kelembapan dan kadar  
nutrien tanah untuk  
membantu petani  
memantau tahap  
kesihatan tanah.**

1. **Identify the problem.** The first step in the problem-solving process is to identify the problem. This involves recognizing the issue, understanding its scope, and determining the impact it has on the organization.

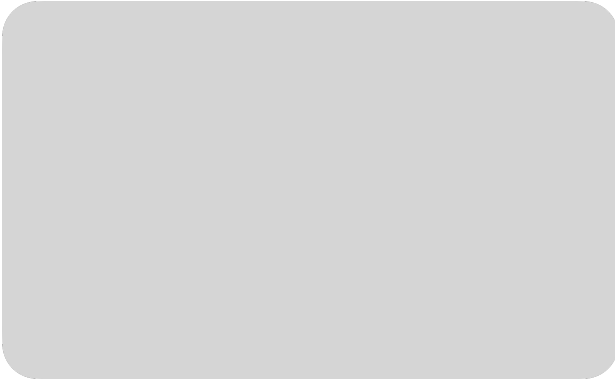
# Proto

**Weather monitoring system (WMS)**

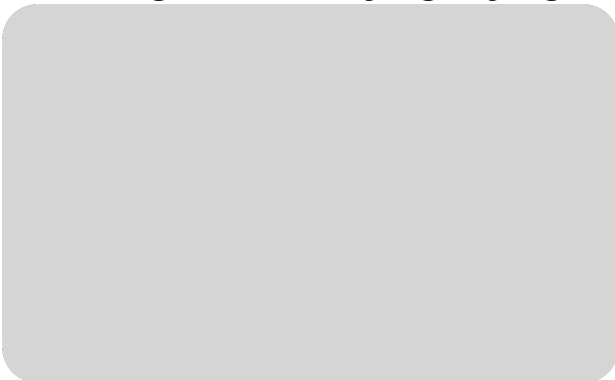


Memberi ramalan cuaca yang tepat supaya petani dapat merancang aktivitas


**pertanian mereka.**



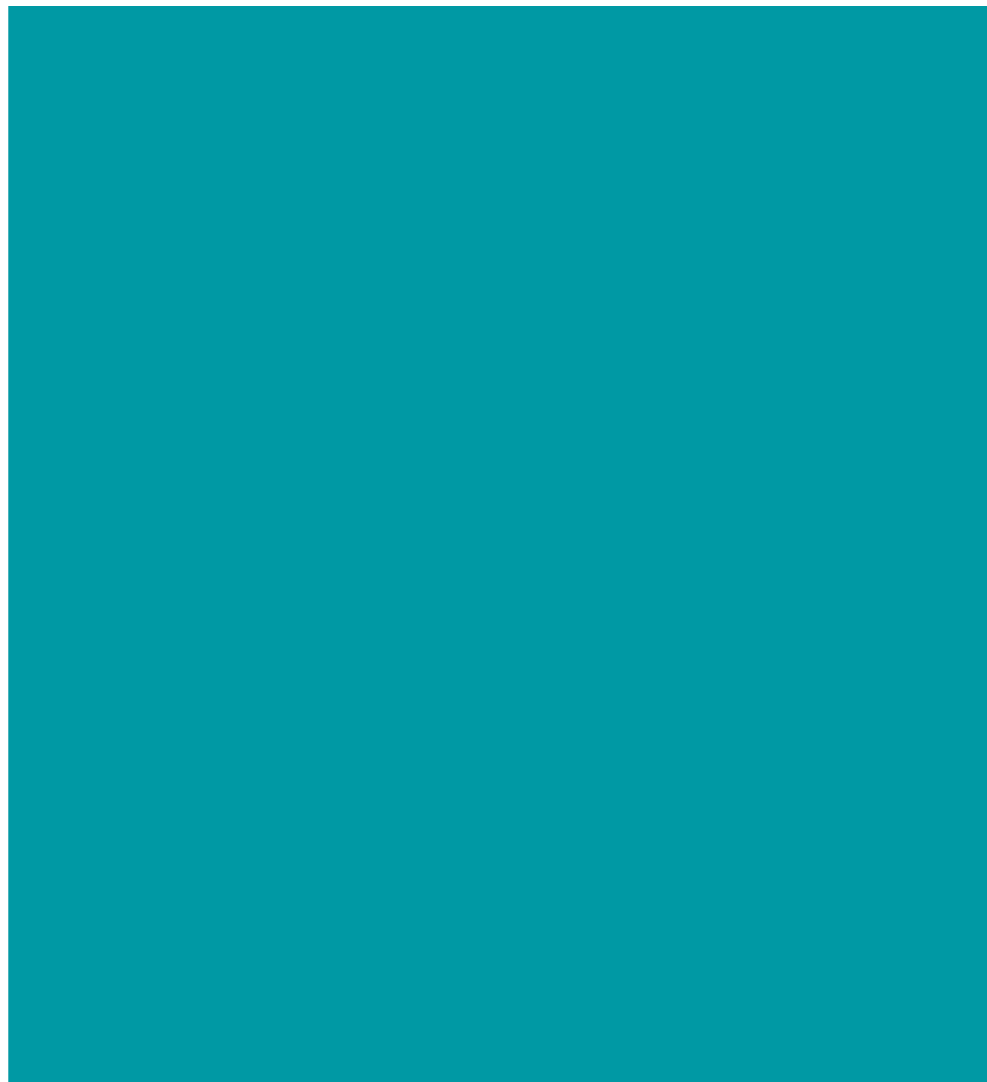
**Menerima amaran awal  
tentang cuaca buruk  
untuk petani mengambil  
langkah berjaga-jaga.**



**Akses kepada teknologi  
satelit memberikan data  
yang lebih tepat dan  
terkini.**




**Maklumat tepat cuaca  
membantu petani  
mengoptimumkan  
penggunaan sumber  
seperti air dan baja.**






# Proto


**Agriclime**



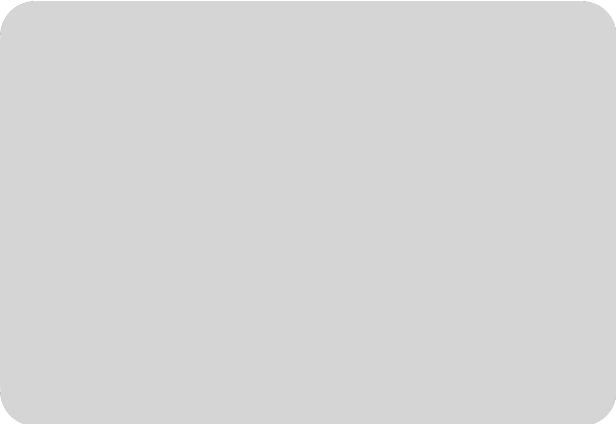
**Alat ramalan cuaca yang  
komprehensif,  
menggabungkan ciri-ciri  
pada C3 dan WMS**



**AgriClime terhubung  
secara terus dengan  
capaian internet bagi  
mendapatkan data masa  
nyata dari sumber luar.**



**Sumber utama data  
AgriClime dari  
METMalaysia bagi  
pemerolehan data yang  
cepat dan tepat.**



**AgriClime mempunyai  
aplikasi telefon pintar  
yang membolehkan  
petani memantau**

**persekitaran ladang dari  
telefon pintar.**



**Segala kawalan  
persekitaran ladang juga  
berfungsi secara  
automatik melalui tetapan  
petani pada aplikasi  
AgriClime.**

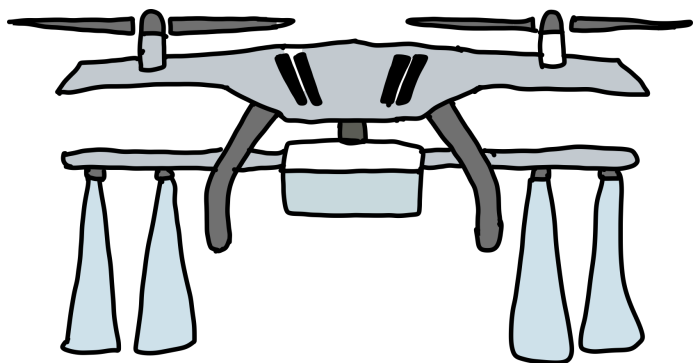


**Build**

Bahagian ini menerangkan tentang pembinaan prototaip terbaik, AgriClime dan bagaimana prototaip ini berfungsi untuk membantu para petani kecil bagi menyesuaikan tanaman bergantung dengan cuaca dan iklim semasa.





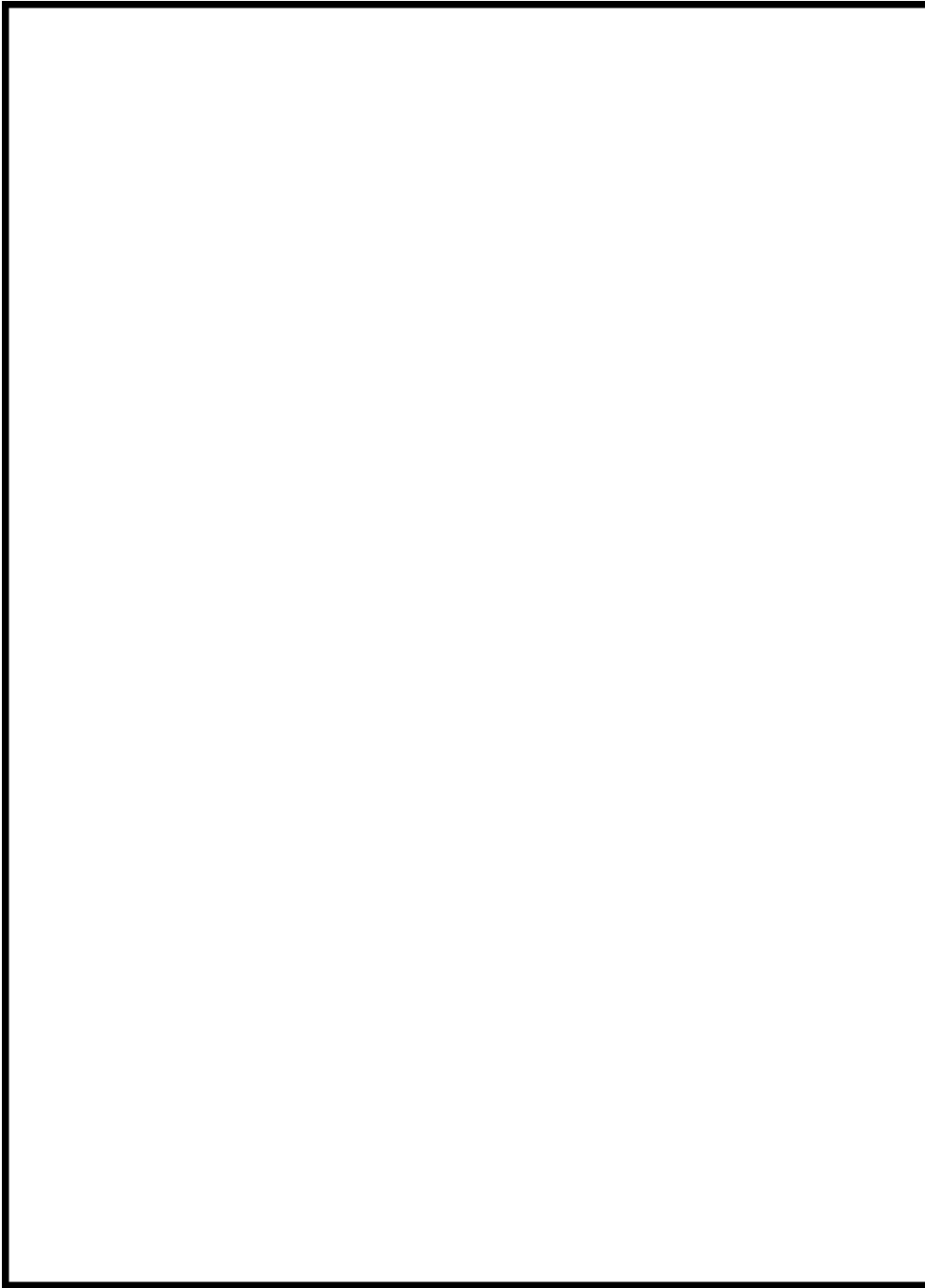


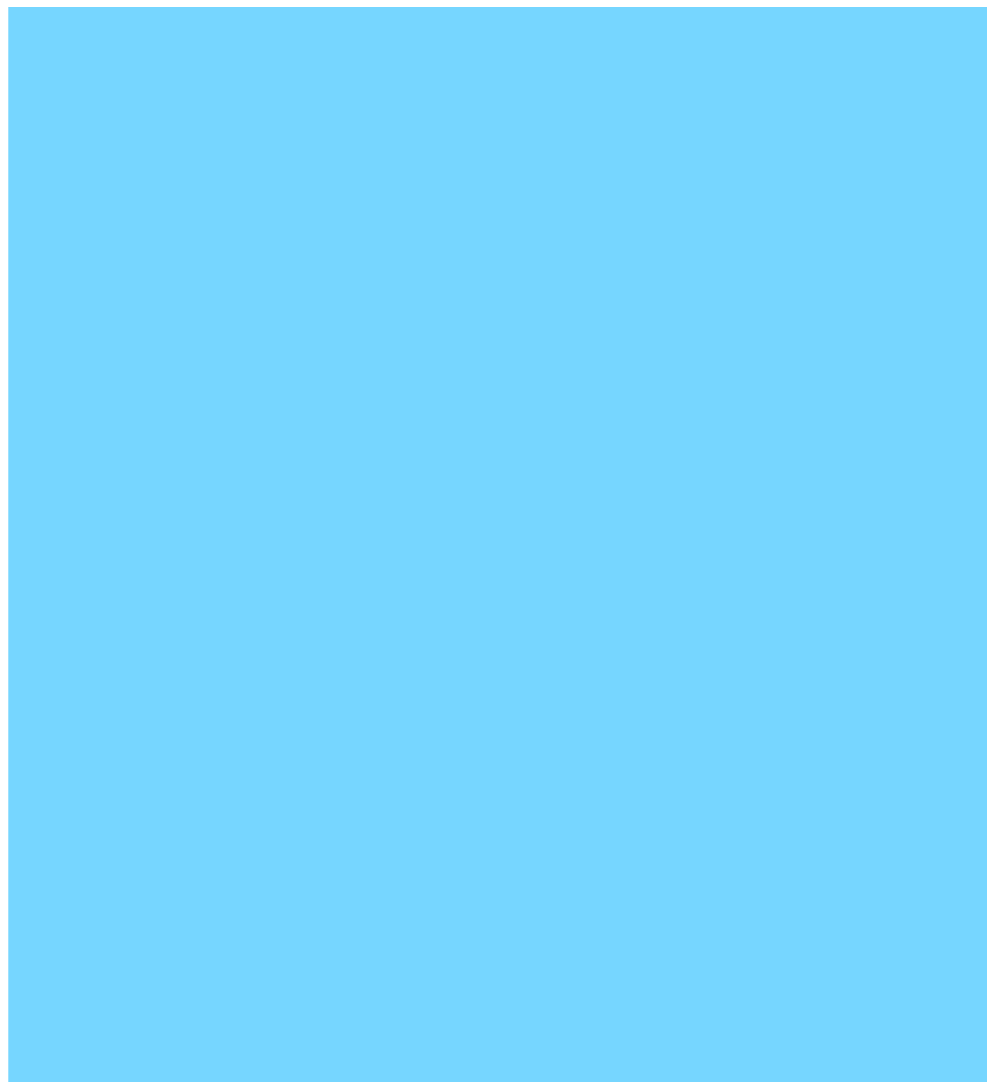


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# Apakah

**Smart weather, smarter farming**





# Bagaimana A

**Smart weather, smarter farming**





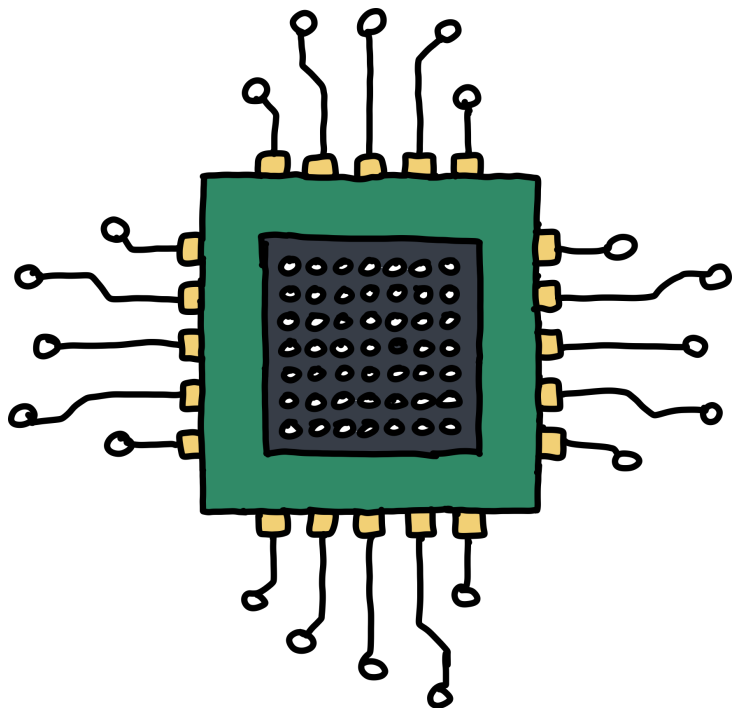
**Evaluate**

Bahagian ini menerangkan tentang hasil jangkaan hasil pertanian melalui penggunaan prototaip AgriClime dan maklum balas pengguna produk terhadap prototaip yang dibina.











# Kesan ke

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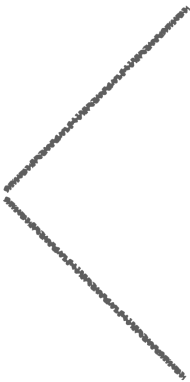




# Meningkatkan produktiviti petani kecil

Petani membuat keputusan lebih tepat berdasarkan data masa nyata AgriClime.

Penggunaan sumber seperti air yang optimum berdasarkan analisis statistik AgriClime.

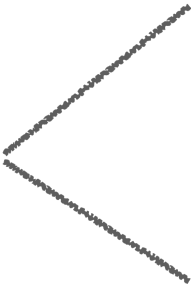




## **Pengurangan kos**

Sistem pengairan automatik berdasarkan kelembapan tanah mengelakkan pembaziran air.

Sistem baja berdasarkan kandungan nutrien tanah menjimatkan penggunaan baja.





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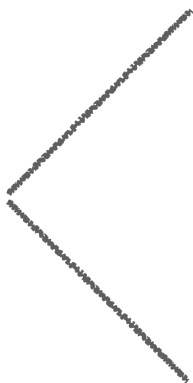
**Agriclime**



# Pengurusan risiko pertanian yang lebih baik

Petani boleh bersedia dengan cuaca buruk berdasarkan analisis statistik AgriClime.

Pengawasan dan amaran perosak membantu petani bersedia dengan lebih awal.





## **Penggandaan kualiti tanaman berskala kecil**

Kawalan persekitaran ladang yang  
berfungsi secara automatik  
memudahkan tugas petani.

Petani boleh memantau dan  
mengawal persekitaran ladang  
dari telefon pintar.









the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million, from 2.5 million in 1980 to 4 million in 1995. The public sector has become a major employer in the UK, and its growth has been a major factor in the overall growth of the economy.

The public sector has also become a major provider of social services, and its growth has been a major factor in the overall growth of the economy. The public sector has become a major provider of social services, and its growth has been a major factor in the overall growth of the economy.

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# Apa kata

**Petani kecil**





# Apa kata

**Petani kecil**

idea dan inovasi  
ini dapat dikembangkan  
dapat membantu petani







# Apa kata

## Orang awam

Tahniah. Satu inovasi yang sangat baik yang dapat digunakan untuk mendapatkan hasil tanaman yang banyak dan berkualiti.



*Emym*

Project yang sangat baik untuk masa akan datang dan memb  
pemikiran kreatif dan kritis secara tidak langsung. Syabas dan  
anda serta teruskan dengan idea-idea yang bernas anda dari



AM  
GPA



# Apa kata

## Orang awam

Saya tertarik idea dan projek yang disampaikan. Projek ini berkeperluan semasa untuk menjamin bekalan makanan negara.

Tahniah atas usaha anda.



Idea yang dibentangkan menarik dan kreatif. Grafik yang diha menarik perhatian dan mudah difahami. Terus kan usaha!





# Apa kata

## Orang awam

Idea yang dibentangkan sangat meng  
Syabas! Saya berharap ianya dapat  
di realisasikan. Tahniiah



MOHD IK

Tahniah! Pembentangan  
lengkap. Penerima  
bertekad berzaman baru



Oik



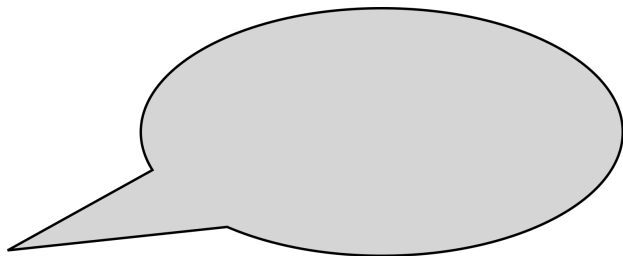




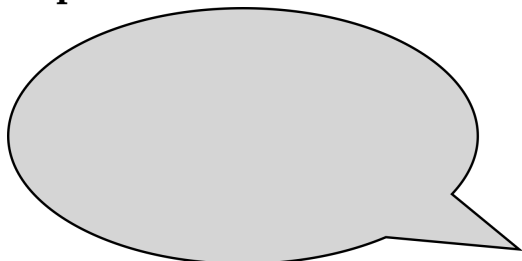
# Reflek

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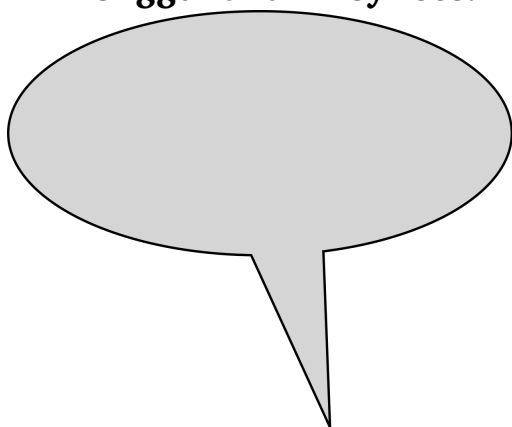




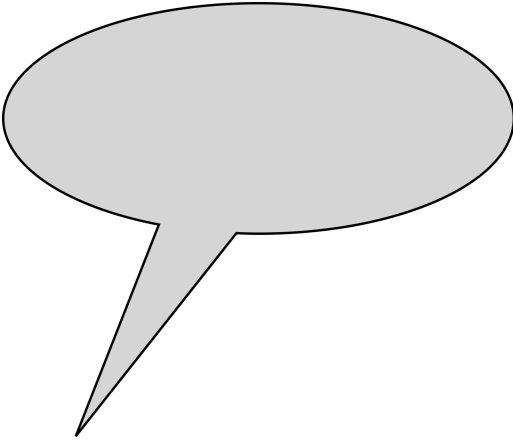
**Teknologi Apple  
Education untuk  
penceritaan idea murid.**



**Membuat  
animasi sangat  
menyeronokkan  
menggunakan Keynote.**



**Freeform untuk  
penyimpanan idea yang  
tersusun.**



**Memoji dalam Clips  
sangat menarik untuk  
penerangan idea.**





# Agriclimate

Merdeka tech exp





# Disediakan oleh:



SK TAMAN MERDEKA